

CLAIMS

1. Method for manufacturing a crystalline powder of a composite lithium and vanadium oxide with formula $\text{Li}_{1+x}\text{V}_3\text{O}_8$, where x is between 0 and 0.2, comprising:
 - formation of an aqueous suspension starting from an NH_4VO_3 paste and monohydrated lithia powder,
 - continuous dehydration of this suspension in a hot gas current at a temperature of between 200 and 600°C to form a dry powder of a precursor with a size grading of between 10 and 100 μm ,
 - calcination of this precursor at a temperature of between 380 and 580°C to form a crystalline powder of $\text{Li}_{1+x}\text{V}_3\text{O}_8$.
- 5 2. Method according to claim 1, characterised in that the suspension is stirred before being injected into the hot gas current.
- 10 3. Method according to either of claims 1 and 2, characterised in that the size grading of the final product is between 10 and 100 μm .
- 15 4. Method according to any of claims 1 to 3, characterised in that the NH_4VO_3 paste is a high purity paste obtained by making VOCl_3 react with NH_4OH .